

CLAIMS

I claim:

- 5            1. A toecap comprising:  
woven layers each composed of continuous strands of  
prepreg material.
- 10            2. The toecap of claim 1 wherein:  
said continuous strands of prepreg material for each of said  
woven layers are aligned in a layer-specific orientation.
- 15            3. The toecap of claim 2 wherein:  
the layer specific orientation of a first of said layer is  
orthogonal to an orientation of a second layer.
- 20            4. The toecap of claim 2 wherein:  
the layer specific orientation of a first layer is oriented at  
forty-five degrees from an orientation of a second layer.
- 25            5. The toecap of claim 1 wherein:  
the woven layers further comprise a hybrid layer having a  
sheet-molding compound (SMC) layer.
- 30            6. The toecap of claim 1 further comprising:  
a resin between said woven layers.

7. The toecap of claim 1 further comprising:
  - a resin comprising vinyl ester between said woven layers.
- 5 8. The toecap of claim 1 further comprising:
  - a resin comprising polyester between said woven layers.
- 10 9. The toecap of claim 1 further comprising:
  - a resin comprising epoxy between said woven layers.
- 15 10. The toecap of claim 1 further comprising:
  - a resin comprising polyurethane between said woven layers.
- 20 11. The toecap of claim 1 wherein:
  - said continuous strands of prepreg material for each of said woven layers comprising directional continuous reinforcing roving.
- 25 12. The toecap of claim 1 wherein:
  - said continuous strands of prepreg material comprising directional continuous glass fiber.
- 30 13. The toecap of claim 1 wherein:
  - said continuous strands of prepreg material comprising directional continuous woven cloth made out of yarns.

14. A method for manufacturing a toecap comprising:
  - 5 laying up a plurality of layers wherein each layer composed of continuous strands of prepreg material.
15. The method for manufacturing a toecap of claim 14 wherein:
  - 10 said step of laying up said plurality of layers further comprising a step of laying up said plurality of layers by aligning each of said of continuous strands of prepreg material in a layer-specific orientation.